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Sequence Listing

<110> Sode, Koji

<120> Glucose Dehydrogenase

<130> psd9009WO

<150> JP 2003-71744

<151> 2003-03-17

<150> JP 2002-172955

<151> 2002-06-13

<160> 19

<210> 1

<211> 454

<212> PRT

<213> *Acinetobacter calcoaceticus*

<400> 1

Asp Val Pro Leu Thr Pro Ser Gln Phe Ala Lys Ala Lys Ser Glu Asn

1 5 10 15

Phe Asp Lys Lys Val Ile Leu Ser Asn Leu Asn Lys Pro His Ala Leu

20 25 30

Leu Trp Gly Pro Asp Asn Gln Ile Trp Leu Thr Glu Arg Ala Thr Gly

35 40 45

Lys Ile Leu Arg Val Asn Pro Glu Ser Gly Ser Val Lys Thr Val Phe

50 55 60

Gln Val Pro Glu Ile Val Asn Asp Ala Asp Gly Gln Asn Gly Leu Leu

65 70 75 80

Gly Phe Ala Phe His Pro Asp Phe Lys Asn Asn Pro Tyr Ile Tyr Ile

85 90 95

Ser Gly Thr Phe Lys Asn Pro Lys Ser Thr Asp Lys Glu Leu Pro Asn

100 105 110

Gln Thr Ile Ile Arg Arg Tyr Thr Tyr Asn Lys Ser Thr Asp Thr Leu

115	120	125
Glu Lys Pro Val Asp Leu Leu Ala Gly Leu Pro Ser Ser Lys Asp His		
130	135	140
Gln Ser Gly Arg Leu Val Ile Gly Pro Asp Gln Lys Ile Tyr Tyr Thr		
145	150	155
Ile Gly Asp Gln Gly Arg Asn Gln Leu Ala Tyr Leu Phe Leu Pro Asn		
165	170	175
Gln Ala Gln His Thr Pro Thr Gln Gln Glu Leu Asn Gly Lys Asp Tyr		
180	185	190
His Thr Tyr Met Gly Lys Val Leu Arg Leu Asn Leu Asp Gly Ser Ile		
195	200	205
Pro Lys Asp Asn Pro Ser Phe Asn Gly Val Val Ser His Ile Tyr Thr		
210	215	220
Leu Gly His Arg Asn Pro Gln Gly Leu Ala Phe Thr Pro Asn Gly Lys		
225	230	235
Leu Leu Gln Ser Glu Gln Gly Pro Asn Ser Asp Asp Glu Ile Asn Leu		
245	250	255
Ile Val Lys Gly Gly Asn Tyr Gly Trp Pro Asn Val Ala Gly Tyr Lys		
260	265	270
Asp Asp Ser Gly Tyr Ala Tyr Ala Asn Tyr Ser Ala Ala Ala Asn Lys		
275	280	285
Ser Ile Lys Asp Leu Ala Gln Asn Gly Val Lys Val Ala Ala Gly Val		
290	295	300
Pro Val Thr Lys Glu Ser Glu Trp Thr Gly Lys Asn Phe Val Pro Pro		
305	310	315
Leu Lys Thr Leu Tyr Thr Val Gln Asp Thr Tyr Asn Tyr Asn Asp Pro		
325	330	335
Thr Cys Gly Glu Met Thr Tyr Ile Cys Trp Pro Thr Val Ala Pro Ser		
340	345	350
Ser Ala Tyr Val Tyr Lys Gly Gly Lys Lys Ala Ile Thr Gly Trp Glu		

355	360	365
Asn Thr Leu Leu Val Pro Ser Leu Lys Arg Gly Val Ile Phe Arg Ile		
370	375	380
Lys Leu Asp Pro Thr Tyr Ser Thr Thr Tyr Asp Asp Ala Val Pro Met		
385	390	395
Phe Lys Ser Asn Asn Arg Tyr Arg Asp Val Ile Ala Ser Pro Asp Gly		
405	410	415
Asn Val Leu Tyr Val Leu Thr Asp Thr Ala Gly Asn Val Gln Lys Asp		
420	425	430
Asp Gly Ser Val Thr Asn Thr Leu Glu Asn Pro Gly Ser Leu Ile Lys		
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Phe Thr Tyr Lys Ala Lys		
450		

<210> 2

<211> 1612

<212> DNA

<213> *Acinetobacter calcoaceticus*

<400> 2

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 ggaaaatttt gacaatttat aaggtggaca catgaataaa catttattgg ctaaaattgc 180
 tttattaagc gctgttcagc tagttacact ctgagcattt gotgatgttc ctctaactcc 240
 atctcaattt gctaaagcga aatcagagaa ctttgacaag aaagttattc tatctaattc 300
 aaataagccg catgctttgt tatggggacc agataatcaa atttggttaa ctgagcgagc 360
 aacaggtaa attctaagag ttaatccaga gtcgggtagt gtaaaaacag ttttcaggt 420
 accagagatt gtcaatgatg ctgatgggca gaatggttta ttaggttttg cttccatcc 480
 tgattttaaa aataatcctt atatctatat ttcaggtaca tttaaaatc cgaatctac 540
 agataaagaa ttaccgaacc aaacgattat tcgtcgttat acctataata aatcaacaga 600
 tacgctcgag aagccagtcg atttattagc aggattacct tcatcaaaag accatcagtc 660
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taaccagett gcttatttgt tcttgccaaa tcaagcacia catagcccaa ctcaacaaga 780
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 agatccaact tatagcacta cttatgatga cgctgtaccg atgtttaaga gcaacaaccg 1440
 ttatcgtgat gtgattgcaa gtccagatgg gaatgtctta tatgtattaa ctgatactgc 1500
 cggaaatgtc caaaaagatg atggctcagt aacaaataca ttagaaaacc caggatctct 1560
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<210> 3

<211> 7

<212> PRT

<213> *Acinetobacter calcoaceticus*

<220>

<221> UNSURE

<222> 4

<223> Xaa is Met or Trp

<400> 3

Cys Gly Glu Xaa Thr Tyr Ile

<210> 4

<211> 7

<212> PRT

<213> *Acinetobacter calcoaceticus*

<220>

<221> UNSURE

<222> 4

<223> Xaa is Asp, Lys, Ile or Asn

<400> 4

Gly Glu Met Xaa Tyr Ile Cys

<210> 5

<211> 7

<212> PRT

<213> *Acinetobacter calcoaceticus*

<400> 5

Glu Met Thr Asp Ile Cys Trp

<210> 6

<211> 7

<212> PRT

<213> *Acinetobacter calcoaceticus*

<400> 6

Met Thr Tyr Asp Cys Trp Pro

<210> 7

<211> 7

<212> PRT

<213> *Acinetobacter calcoaceticus*

<400> 7

Thr Tyr Ile Arg Trp Pro Thr

<210> 8

<211> 7

<212> PRT

<213> *Acinetobacter calcoaceticus*

<400> 8

Pro Thr Val Pro Pro Ser Ser

<210> 9

<211> 28
<212> DNA
<213> Artificial Sequence
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<223> primer for point mutation
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<210> 10
<211> 28
<212> DNA
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<223> primer for point mutation
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<211> 32
<212> DNA
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<223> primer for point mutation
<400> 11
cagcaaatgt agttcatctc tccacaagtt gg 32
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<212> DNA
<213> Artificial Sequence
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<223> primer for point mutation
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<210> 13

<211> 30

<212> DNA

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<223> primer for point mutation

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<211> 30

<212> DNA

<213> Artificial Sequence

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<223> primer for point mutation

<400> 14

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<210> 15

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> primer for point mutation

<400> 15

ccagcaaatg tcggatcatc ctccacaagt tgg 33

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<211> 19

<212> DNA

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<223> primer for point mutation

<400> 16

ggccagcaat ttaggtca 19

<210> 17

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> primer for point mutation

<400> 17

ctgttgcca gcaaatgtag g 21

<210> 18

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> primer for point mutation

<400> 18

gcagatgacg gtggaactgt tggc 24

<210> 19

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> primer for point mutation

<400> 19

cctgactgat gttcttttga tgaagg 26